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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/720,337	11/25/2003	Il Nah	P24481	3926

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EXAMINER

KYLE, MICHAEL J

ART UNIT PAPER NUMBER

3677

DATE MAILED: 06/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/720,337

Applicant(s)

NAH, IL

Examiner

Michael J. Kyle

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 April 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gauron (U.S. Patent No. 4,902,180) in view of Kann (U.S. Patent No. 2,415,695). With respect to claims 1 and 8, Gauron discloses an insert nut having a shape defined by a plurality of sidewalls (78, 90, 92, for example), and at least one circumferentially extending groove (84, 86, 88) along a longitudinal dimension of the insert nut. The plurality of sidewalls are configured to provide a plurality of gaps (see figure 17) between the sidewalls of the insert nut and a surface of an installation hole of the carrier. Plastic is injectable into the plurality of gaps (via 94, 96) and into the at least one groove. Gauron also discloses a method of mounting the insert nut in an insert hole (figure 17). Gauron does not show the insert nut to have a polygonal shape.

3. Kann teaches an insert nut (11) of polygonal shape in order to secure the nut against turning (column 3, line 30). The insert nut forms a plurality of gaps between its sidewalls and the carrier, where the gaps extend along the entire length of the insert nut. It would have been obvious to one having ordinary skill in the art at the time of the invention to modify Gauron as taught by Kann in order to secure the nut against turning.

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4. With respect to claims 2, 3, 9, and 10, Kann discloses the insert nut can have any of polygonal shapes, including a hexagon or pentagon (column 3, lines 2-4).
5. With respect to claims 4, 5, 7, 11, 12, and 14, Gauron discloses the longitudinal dimension of the insert nut corresponds to a thickness of the carrier, and the groove is circular (figures 13, 14 and 17). Gauron also shows a plurality of grooves along the longitudinal dimension.
6. With respect to claims 6 and 13, neither Gauron nor Kann disclose the groove to be in the shape of a pentagon. However, Kann discloses that polygonal shapes may be used to secure against turning within the hole. It would have been obvious to one having ordinary skill in the art at the time of the invention to make the grooves in the shape of pentagon in order to provide resistance to torque as the bolt is fastened.
7. With respect to claims 15 and 18, Gauron, modified as taught by Kann, teaches each gap to be of uniform size and provides an inlet port for plastic injection
8. With respect to claims 16 and 19, Kann teaches the polygonal shape i sized to be substantially inscribed in the installation hole of the carrier (14 of Kann)
9. With respect to claims 17 and 20, the combination of Gauron and Kan teaches each gap is defined by adjacent vertices (of Kann) and a segment of the installation hole between the vertices.

Response to Arguments

10. Applicant's arguments with respect to claims 1 and 8 have been considered but are moot in view of the new ground(s) of rejection. All claims are now rejected by the combination of

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Gauron in view of Kann. Examiner has removed the Quaney reference from the rejection.

Examiner believes Kann cures all of applicant's argued deficiencies of the previous rejection.

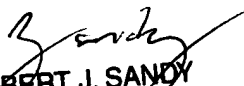
Conclusion

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael J. Kyle whose telephone number is 571-272-7057. The examiner can normally be reached on Monday - Friday, 8:30 am - 5:00 pm.

12. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Swann can be reached on 571-272-7075. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

13. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

mk


ROBERT J. SANDY
PRIMARY EXAMINER